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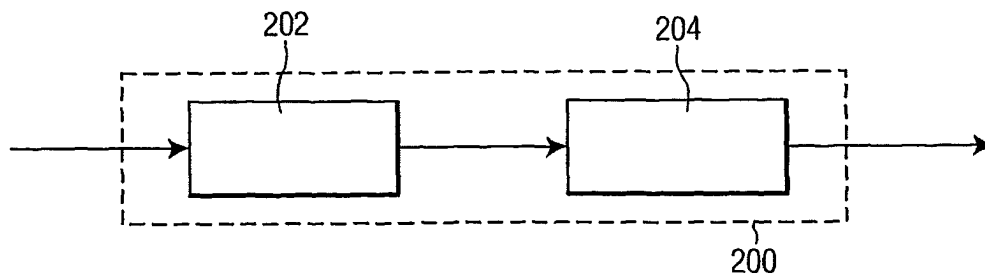
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(54) Title: METHOD AND SYSTEM FOR PASSBAND RIPPLE CANCELLATION IN CASCADING FILTERS



(57) Abstract: A composite filter (200) includes at least two cascading filters (202, 204) designed to minimize a passband ripple in the composite filter (200). The at least two cascading filters (202, 204) may also be designed to maximize stopband rejection in the composite filter (200). Filter characteristics, such as the order, bandwidth, stopband attenuation, and ripple magnitude, for the cascading filters (202, 204) are selected in order to achieve minimal passband ripple and maximum stopband rejection in the composite filter (200). The passband ripple in the composite filter (200) is minimized or cancelled by having the passband ripple in the cascading filters (202, 204) be equal or nearly equal in magnitude but out of phase with respect to each other.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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